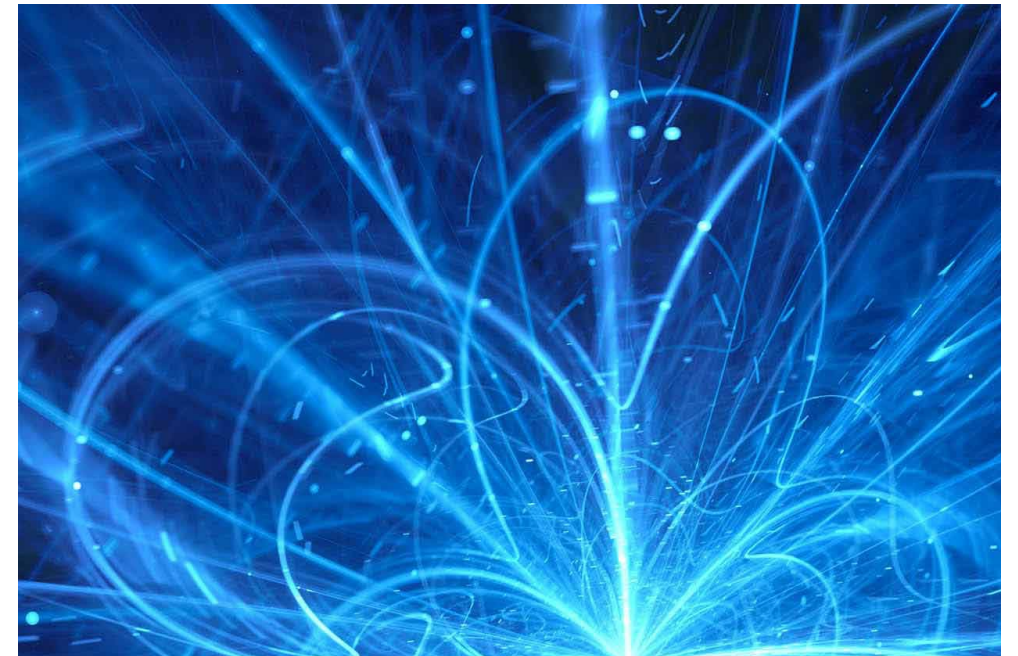


# Wireless Power Transfer

Dr. Olga Spahn  
ARPA-E Program Director

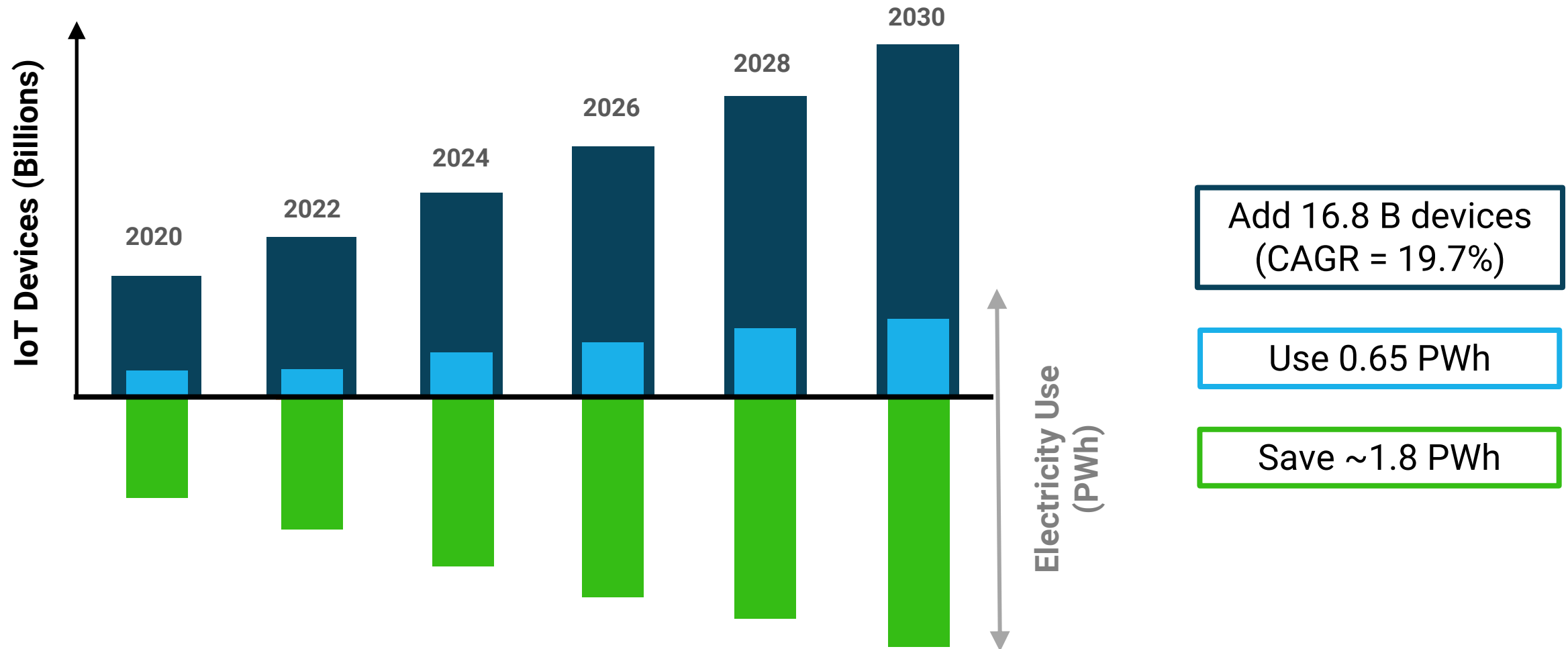
June 15, 2022



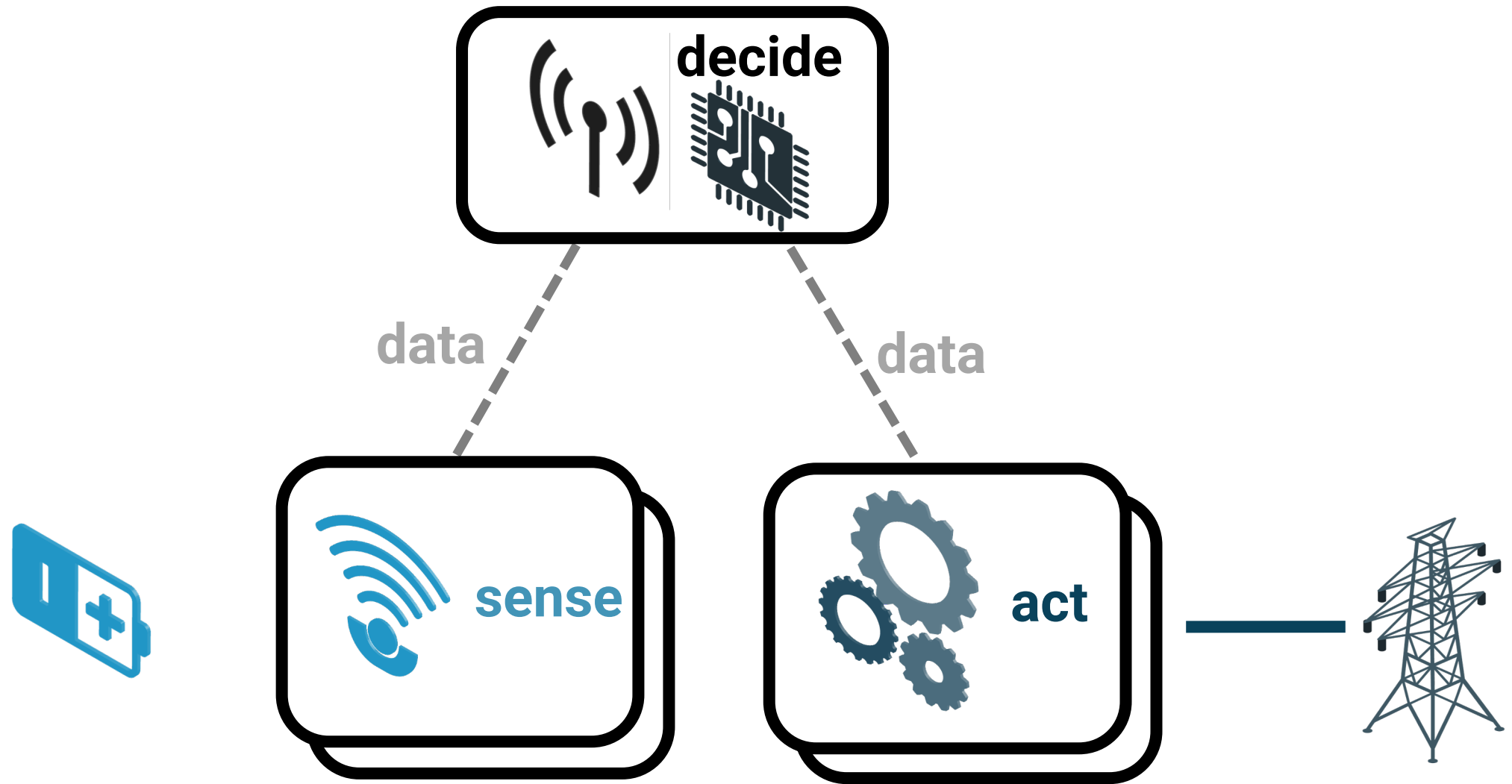
# Imagine Efficient and Safe Power Delivery without Wires...



# IoT Can Support Sustainability and is Huge (3x by 2030!)

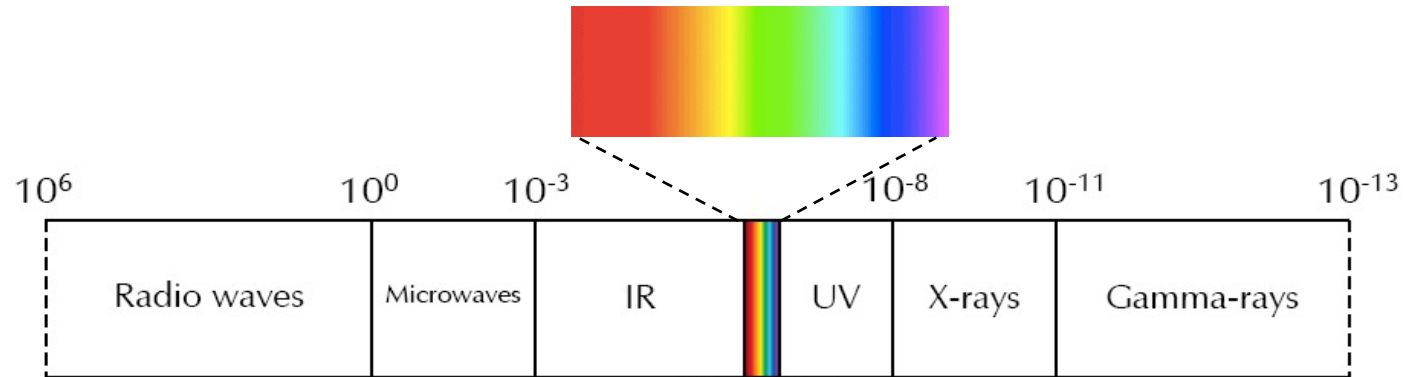
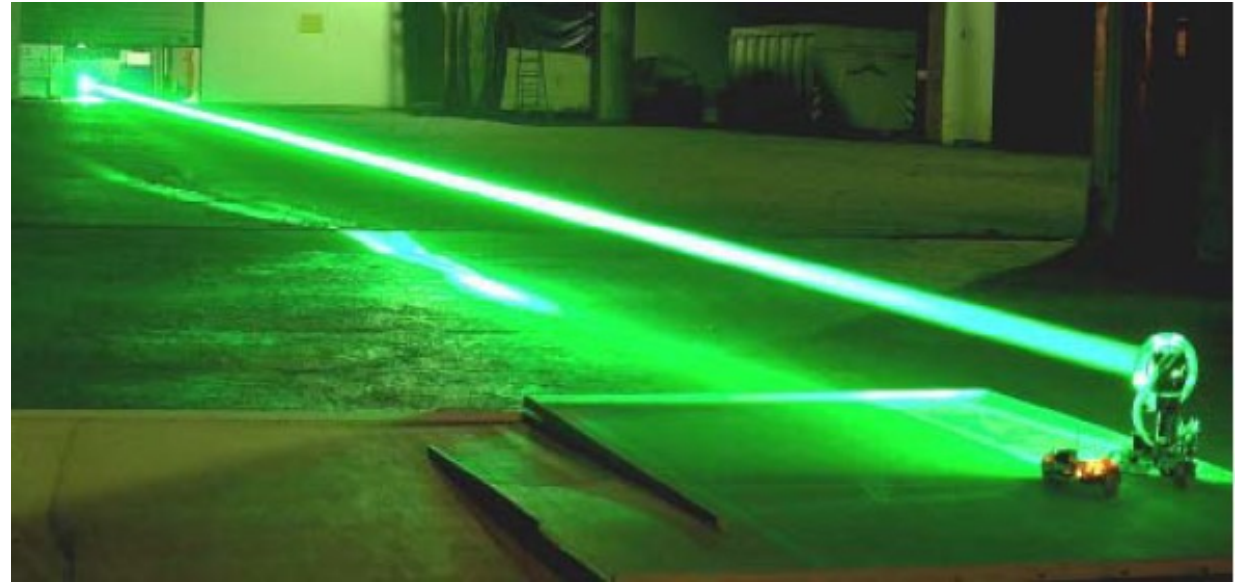


# IoT Capability Is Limited by Edge Power Delivery

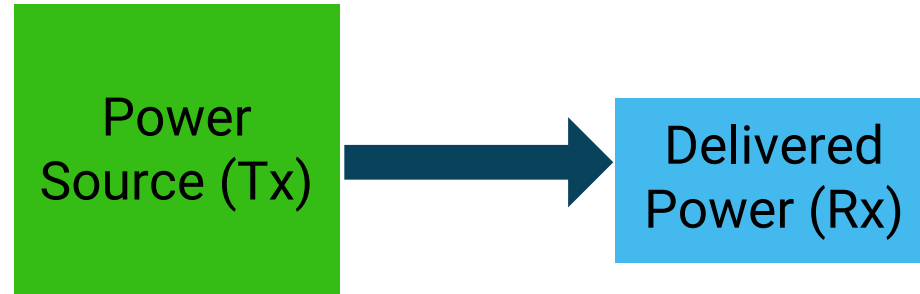




# Options for Wireless Power Delivery



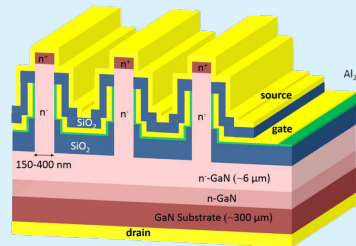
# Need: Use Cases, Increased Efficiency and Safety Approaches



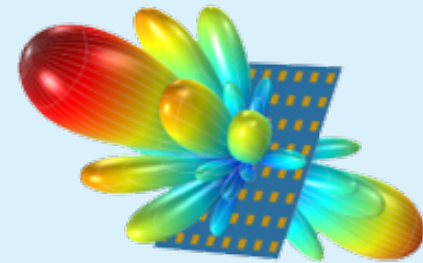
*Leverage technologies to improve efficiency!*



Laser Machining

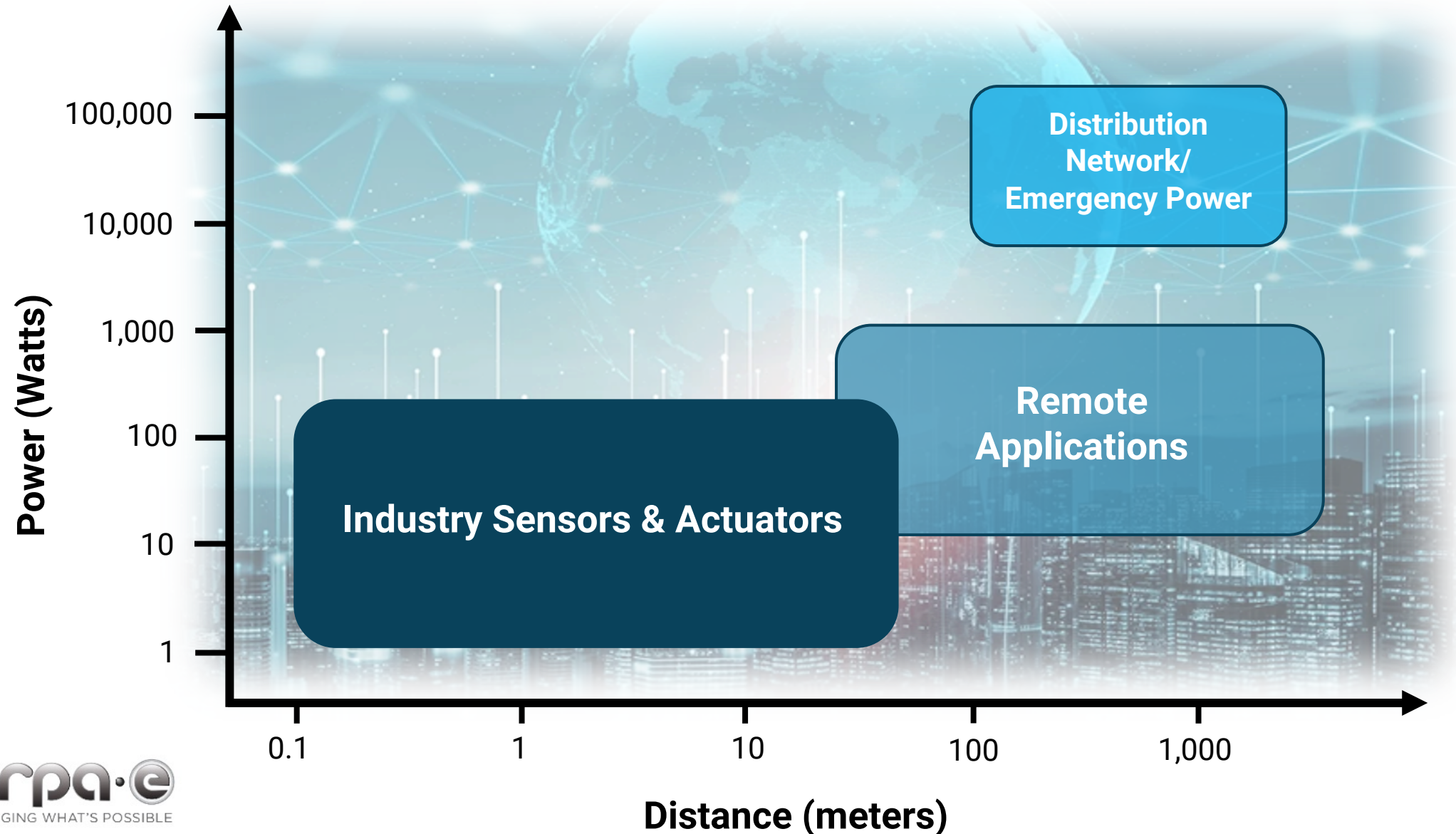


WBG Power Electronics



Beam Forming Antennas

# Potential Applications at Different Power and Distance Scales





# Imagine World Without Wires - What Are Your Ideas?

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